

Precalc Warm Up # 12-3

Accurately sketch each triangle, solve it then find area. (2 decimal places)

1. $a = 9$
 $b = 8$
 $c = 15$

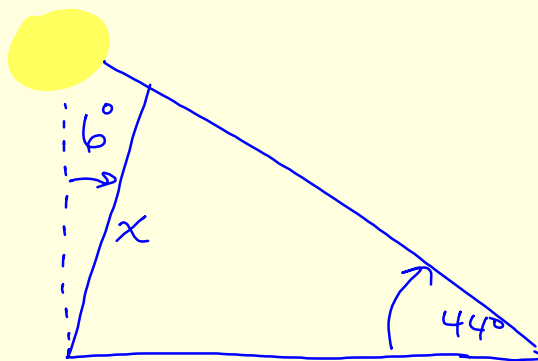
2. $A = 105^\circ$
 $C = 32^\circ$
 $b = 6$

p. 281

2. The angle of depression from the top of a building 60 m high to a swing in the local playground is 58° . How far is the swing from the foot of the building?

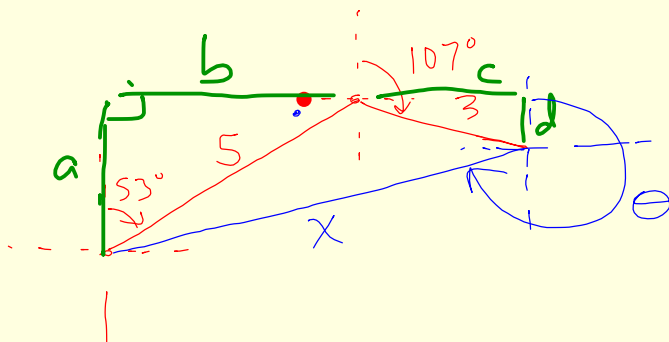
4. Find the angle of elevation from a bench to the top of an 80 m high building if the bench is 105 m from the foot of the building.

8. A lamp post leaning away from the sun and at 6° from the vertical, casts a shadow 12 m long when the sun's angle of elevation is 44° . Assuming that the level of the ground where the pole is situated is horizontal, find its length.



- 12.** A hiker walks for 5km on a bearing of 053° true (North 53° East). She then turns and walks for another 3km on a bearing of 107° true (East 17° South).
- Find the distance that the hiker travels North/South and the distance that she travels East/West on the first part of her hike.
 - Find the distance that the hiker travels North/South and the distance that she travels East/West on the second part of her hike.
 - Hence find the total distance that the hiker travels North/South and the distance that she travels East/West on her hike.
 - If the hiker intends to return directly to the point at which she started her hike, on what bearing should she walk and how far will she have to walk?

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 - Hence find the total distance that the hiker travels North/South and the distance that she travels East/West on her hike. $a + d$ $b + c$
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Test SL 9.2, 9.4, 9.5
Group test tomorrow
Individual test Friday

Law of Sines
Law of Cosines
Area formulas
Angles of Elevation and Depression
Bearing
Solving Triangles

HW: p. 304

#2-18 even, skip 16

Thursday: Week 11 HW

SL pgs. 288, 292, 297, 298, 302, 304